

Arkema Group Pebax® 7033 SN 01 Polyether Block Amide (PEBA) (Conditioned)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyether Block Amide (PEBA)

Material Notes:

POLYETHER BLOCK AMIDE (PEBA) hardness 70 shore D Non plasticized flexible Polyamide Outstanding mechanical properties at low temperature (-40°C) Applications: Sport (Football shoe sole, ski top layer, glasses...) Industrial (conveyor belts, Fasteners...)ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-7033-SN-01-Polyether-Block-Amide-PEBA-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in³	
Melt Flow	6.0 g/10 min @Load 1.00 kg, Temperature 235 °C	6.0 g/10 min @Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Tensile Strength, Yield	21.0 MPa	3050 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	22 %	22 %	50 mm/min
Tensile Modulus	0.363 GPa	52.6 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	0.910 J/cm² @Temperature -30.0 °C	4.33 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	
Melting Point	172 °C	342 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	163 °C	323 °F	50 °C/100 °F, SUN
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Surface Resistance	4.00e+13 ohm	4.00e+13 ohm	

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